

## Conservation Effects

**Land use:** Cropland

**Guidance Document ID#:** C9

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**Resource Setting:** Orchard, vineyard, or ornamental nursery adjacent to surface water. Irrigated.

### **RMS Alternative #1**

Contour Orchard and Other Fruit (331)

Filter Strip (393)

Grade Stabilization Structure (410)

Grassed Waterway (412)

Irrigation Water Management (449)

Nutrient Management (590)

Pest Management (595)

Riparian Forest Buffer (391)

Stream Crossing and Livestock Access (728)

Typical Resource Concerns	Practice(s) that treat the resource concern to Quality Criteria levels*	Comments
<b>SOIL Erosion</b>		
1) Sheet & rill erosion	Contour Orchard and Other Fruit (331) Irrigation Water Management (449)	soil loss less than “T”
2) Ephemeral gully/concentrated flow erosion	Grassed Waterway (412)	gullies stabilized
3) Classic gully/concentrated flow erosion	Grade Stabilization Structure (410)	gullies stabilized
4) Other erosion	Stream Crossing and Livestock Access (728)	areas stabilized
<b>WATER Quality – ground water</b>		
1) Pesticides	Irrigation Water Management (449) Pest Management (595)	pesticide movement minimized
2) Nutrients	Irrigation Water Management (449) Nutrient Management (590)	nutrient movement minimized
<b>WATER Quality – surface water</b>		
1) Pesticides	Filter Strip (393) Irrigation Water Management (449) Pest Management (595) Riparian Forest Buffer (391)	pesticide movement minimized
2) Nutrients/sediments	Filter Strip (393) Grade Stabilization Structure (410) Grassed Waterway (412) Irrigation Water Management (449) Nutrient Management (590) Riparian Forest Buffer (391)	Nutrient and sediment movement minimized.
<b>WATER Quantity</b>		
1) Irrigation Water Source	Irrigation Water Management (449)	Application rate is not excessive.

\* Practices must be installed according to NRCS practice standards found in FOTG Section IV. General criteria (or design criteria), Additional Criteria specific to the resource concern, and Operation and Maintenance requirements must be met.

Typical Resource Concerns	Practice(s) that treat the resource concern to Quality Criteria levels*	Comments
<b>AIR</b>		
1) Airborne Chemical Drift	Pest Management (595)	Application in compliance with laws and consistent with Drift Management Plan.
<b>PLANTS</b>		
1) Invasive species and noxious weeds	Pest Management (595)	Invasive species and noxious weeds controlled.
2) Threatened and endangered species	Pest Management (595)	Laws regarding T&E species followed.
<b>ANIMAL Habitat</b>		
1) Warmwater and coldwater fisheries	Riparian Forest Buffer (391)	35 feet of permanent vegetation along watercourses
<b>ANIMAL Management</b>		
1) Threatened and endangered species	Pest Management (595)	Laws regarding T&E species followed.

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